

IN THE CLAIMS:

- Please cancel claim 1.
- Please replace the text of claims 2-6, 14, and 24 with the following text:

2. (Amended) A cleaning device as set forth in claim 5, wherein  
said first wiping member is designed to move between said  
retracted position and said wiping position located above said retracted  
position, by moving a cleaner lever, and

    said second wiping member is arranged above said retracted  
position and below said wiping position.

3. (Amended) A cleaning device as set forth in claim 5, wherein said  
cleaner lever has a third wiping member which is able to contact with  
said second wiping member while said cleaner lever is moving.

4. (Amended) A cleaning device for cleaning a nozzle surface of an  
ink-jet head, comprising:

    a first wiping member for wiping said nozzle surface;

    a cleaner lever for supporting said first wiping member;

    a lever driving mechanism moving said first wiping member  
between a retracted position located away from said nozzle surface and  
a wiping position for wiping said nozzle surface;

    a flat plate form second wiping member formed of an elastic  
body arranged within a moving path of said first wiping member so as  
to contact with said first wiping member;

    a first supporting member supporting said second wiping  
member on the side of the retracted position of said first wiping  
member; and

*Sub C1*

a second supporting member supporting said second wiping member on the side of said wiping position of said first wiping member;

wherein a length of a portion of said second wiping member projecting from said first supporting member is greater than a length of a portion of said second wiping member projecting from said second supporting member.

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5. (Amended) A cleaning device for cleaning a nozzle surface of an ink-jet head, comprising:

a first wiping member for wiping said nozzle surface;

a cleaner lever for supporting said first wiping member;

a lever driving mechanism moving said first wiping member between a retracted position located away from said nozzle surface and a wiping position for wiping said nozzle surface; and

a flat plate form second wiping member formed of an elastic body arranged within a moving path of said first wiping member so as to contact with said first wiping member;

wherein a tip end surface of said first wiping member first comes in substantially perpendicular contact with a side surface of said second wiping member and then moves across said side surface.

6. (Amended) A cleaning device for cleaning a nozzle surface of an ink-jet head, comprising:

a first wiping member for wiping said nozzle surface;

a cleaner lever for supporting said first wiping member;

a lever driving mechanism moving said first wiping member between a retracted position located away from said nozzle surface and a wiping position for wiping said nozzle surface; and

*Sub C1*

a flat plate form second wiping member formed of an elastic body arranged within a moving path of said first wiping member so as to contact with said first wiping member;

wherein said lever driving mechanism includes:

a rotary driving source;

a gear train to be driven by said rotary driving source;

a friction type clutch lever which is frictionally engaged with one of gears constituting said gear train by means of a predetermined biasing force and is arranged coaxially with said gear;

a first cam mechanism for converting rotation of said clutch lever into movement of said cleaner lever; and

a tooth portion formed on said clutch lever which engages with said gear train when said clutch lever is in a predetermined rotational angular range.

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*A4 end*

14. (Amended) A cleaning device for cleaning a nozzle surface of an ink-jet head, comprising:

a first wiping member for wiping said nozzle surface;

a cleaner lever for supporting said first wiping member; and

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a lever driving mechanism moving said first wiping member between a retracted position located away from said nozzle surface and a wiping position for wiping said nozzle surface; wherein said lever driving mechanism includes:

a rotary driving source;

a gear train to be driven by said rotary driving source;

a friction type clutch lever which is frictionally engaged with one of gears constituting said gear train by means of a predetermined biasing force and is arranged coaxially with said gear;

*a5*  
*end*  
*Sub*  
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cam mechanism converting rotation of said clutch lever into movement of said cleaner lever; and

a tooth portion formed on said clutch lever which engages with said gear train when said clutch lever is in a predetermined rotational angular range.

*a6*  
*Sub*  
*C1*

24. (Amended) An ink-jet printer comprising:

an ink-jet head;

a cleaning device which is arranged offsetting from a printing region of said ink-jet head and is defined in any one of claims 2 to 23 and 25 to 42; and

a carriage carrying said ink-jet head for reciprocally moving along a moving path through said printing region and a position opposing to said cleaning device.

► Please add the following new claims 25-42:

*a7*  
*Sub*  
*C1*

25. (New) A cleaning device as set forth in claim 4, wherein

said first wiping member is designed to move between said retracted position and said wiping position located above said retracted position, by moving a cleaner lever, and

said second wiping member is arranged above said retracted position and below said wiping position.

26. (New) A cleaning device as set forth in claim 4, wherein said cleaner lever has a third wiping member which is able to contact with said second wiping member while said cleaner lever is moving.

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cl*

27. (New) A cleaning device as set forth in claim 4, wherein said lever driving mechanism includes:

a rotary driving source;

a gear train to be driven by said rotary driving source;

a friction type clutch lever which is frictionally engaged with one of gears constituting said gear train by means of a predetermined biasing force and is arranged coaxially with said gear;

a first cam mechanism for converting rotation of said clutch lever into movement of said cleaner lever; and

a tooth portion formed on said clutch lever which engages with said gear train when said clutch lever is in a predetermined rotational angular range.

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28. (New) A cleaning device as set forth in claim 27, wherein said tooth portion engages with said gear train when said first wiping member is being moved in a condition contacting with said second wiping member.

29. (New) A cleaning device as set forth in claim 27, wherein said first cam mechanism includes a first cam follower formed in said cleaner lever, a first cam surface contacting with said first cam follower while said cleaner lever moves to said wiping position, and a second cam surface contacting with said first cam follower while said cleaner lever moves to said retracted position, and wherein said first and second cam surfaces are arranged at a predetermined angle with respect to each other.

30. (New) A cleaning device as set forth in claim 27, further comprising a lock lever for locking said ink-jet head at a predetermined position, wherein

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said lever driving mechanism includes a second cam mechanism for converting a rotational force of said rotary driving source into a driving force for moving said lock lever between a locking position for fixing said ink-jet head and an unlocking position away from said ink-jet head.

*A7  
Cont'd*

31. (New) A cleaning device as set forth in claim 30, wherein said first cam mechanism includes a first cam follower formed in said cleaner lever, said first cam follower following a first cam region for reciprocally moving said cleaner lever between said wiping position and said retracted position according to rotation of said clutch lever, and a second cam region for holding said cleaner lever at said retracted position even when said clutch lever is rotated, and

said second cam mechanism includes a second cam follower formed in said lock lever, said second cam follower following a third cam region for reciprocally moving said lock lever between said locking position and said unlocking position according to rotation of said clutch lever, and a fourth cam region for holding said lock lever at said unlocking position even when said clutch lever is rotated.

32. (New) A cleaning device as set forth in claim 31, wherein while said first cam follower is operated in said first cam region, said second cam follower is in said fourth cam region, and when said first cam follower is moved into said second cam region, said second cam follower is shifted into operation in said third cam region.

33. (New) A cleaning device as set forth in claim 31, wherein said second cam region is defined by an arc shaped cam groove centered at a rotational center of said clutch lever, and

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said fourth cam region is defined by an arc shaped groove centered at rotational center of said clutch lever.

34. (New) A cleaning device as set forth in claim 30, further comprising an ink pump device for sucking ink from ink nozzles of said ink-jet head; wherein

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said rotary driving source is a motor for driving said ink pump device.

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*cont'd*  
*Sub C1*

35. (New) A cleaning device as set forth in claim 5, wherein said lever driving mechanism includes:

a rotary driving source;

a gear train to be driven by said rotary driving source;

a friction type clutch lever which is frictionally engaged with one of gears constituting said gear train by means of a predetermined biasing force and is arranged coaxially with said gear;

a first cam mechanism for converting rotation of said clutch lever into movement of said cleaner lever; and

a tooth portion formed on said clutch lever which engages with said gear train when said clutch lever is in a predetermined rotational angular range.

36. (New) A cleaning device as set forth in claim 35, wherein said tooth portion engages with said gear train when said first wiping member is being moved in a condition contacting with said second wiping member.

*Sub C1*

37. (New) A cleaning device as set forth in claim 35, wherein said first cam mechanism includes a first cam follower formed in said cleaner lever, a first cam surface contacting with said first cam follower while

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said cleaner lever moves to said wiping position, and a second cam surface contacting with said first cam follower while said cleaner lever moves to said retracted position, and wherein said first and second cam surfaces are arranged at a predetermined angle with respect to each other.

*A7 contd*

38. (New) A cleaning device as set forth in claim 35, further comprising a lock lever for locking said ink-jet head at a predetermined position, wherein

    said lever driving mechanism includes a second cam mechanism for converting a rotational force of said rotary driving source into a driving force for moving said lock lever between a locking position for fixing said ink-jet head and an unlocking position away from said ink-jet head.

39. (New) A cleaning device as set forth in claim 38, wherein said first cam mechanism includes a first cam follower formed in said cleaner lever, said first cam follower following a first cam region for reciprocally moving said cleaner lever between said wiping position and said retracted position according to rotation of said clutch lever, and a second cam region for holding said cleaner lever at said retracted position even when said clutch lever is rotated, and

    said second cam mechanism includes a second cam follower formed in said lock lever, said second cam follower following a third cam region for reciprocally moving said lock lever between said locking position and said unlocking position according to rotation of said clutch lever, and a fourth cam region for holding said lock lever at said unlocking position even when said clutch lever is rotated.

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40. (New) A cleaning device as set forth in claim 39, wherein while said first cam follower is operated in said first cam region, said second cam follower is in said fourth cam region, and when said first cam follower is moved into said second cam region, said second cam follower is shifted into operation in said third cam region.

*A7 end*

41. (New) A cleaning device as set forth in claim 39, wherein said second cam region is defined by an arc shaped cam groove centered at a rotational center of said clutch lever, and

said fourth cam region is defined by an arc shaped groove centered at rotational center of said clutch lever.

42. (New) A cleaning device as set forth in claim 38, further comprising an ink pump device for sucking ink from ink nozzles of said ink-jet head; wherein

said rotary driving source is a motor for driving said ink pump device.

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